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1. CAMERA SYSTEM 111B, UNIT THREE, WAS USED ON AN H-TEST MISSION FLOWN 19 OCTOBER 1967.

2. ORIGINAL NEGATIVE:

A. THE ENTIRE MISSION UTILIZED A SHUTTER SPEED OF 80 INCHES PER SECOND. THE DENSITY IS MEDIUM TO HEAVY THROUGHOUT AND THE BASE FOG IS HIGH. THE GRID DOTS AND OTHER DENSE IMAGES APPEAR FLARED.

B. IMAGE SMEAR IS NOTED IN THE ALONG TRACK DIRECTION AND IS ASSOCIATED WITH INCORRECT IMC. (FRAME 422). THE FORMATS ARE SKEWED SLIGHTLY THROUGHOUT THE MISSION WHICH INDICATES THAT THE IMC UNIT WAS OPERATING; HOWEVER, IT IS APPARENT THAT ADEQUATE IMC WAS NOT ACHIEVED.

C. PLUS AND MINUS DENSITY BANDS, ALIGNED ALONG THE MAJOR AXIS, ARE PRESENT THROUGHOUT THE LAST HALF OF THE MISSION. THEY ARE ONE-HALF INCH WIDE AND ARE APPARENTLY CAUSED BY AN ERRATIC SHUTTER VELOCITY. THEY ARE MORE SEVERE WHEN THE SHUTTER TRAVELS TOWARD THE TITLED EDGE THAN WHEN IT TRAVELS FROM THE TITLED EDGE OF THE FILM.

C. IMAGE SMEAR, WHICH IS ASSOCIATED WITH VEHICLE MANEUVERING, IS PRESENT AT VARIOUS PORTIONS OF THE MISSION. SEVERELY SMEARED FRAMES ARE PRESENT AT THE BEGINNING AND END OF PORTIONS OF THE MISSION WHERE THE CAMERA REMAINED IN OPERATION WHILE THE VEHICLE ROLLED. WHEN THE VEHICLE HELD A CONSTANT ROLL IN A TURN, THE SMEAR IS NOT AS BAD; HOWEVER, RESOLUTION IS SOMEWHAT DEGRADED, APPARENTLY BY IMAGE MOTION.

D. THE FIDUCIAL WHICH POINTS TOWARD THE FOLLOWING FRAME IS NOT IMAGED. MOST OF THE GRID DOTS HAVE SECONDARY, FLARE RINGS AROUND THEM. METERING IS GOOD THROUGHOUT. DATA BLOCKS ARE SHARPLY IMAGED WITH GOOD DENSITY.

E. THE RESOLUTION IS NOT AS GOOD AS THE FIRST TEST MISSION. THE HEAVY DENSITY OF THE ORIGINAL NEGATIVE AND THE LACK OF IMC ARE PROBABLY THE MAJOR CAUSES OF THE LOSS IN RESOLUTION. THE

ON NEAR VERTICAL ACQUISITIONS. IT IS ALSO NOTED THAT MOST OF THE MISSION IS EXPOSED USING HIGH OBLIQUITY ANGLES. DOUBLE IMAGERY IS NOT AS APPARENT IN THESE HIGH OBLIQUES AS IT HAS BEEN ON PREVIOUS MISSIONS.

F. NO PILOT INFORMATION OR GROUND TRACK WAS FURNISHED FOR THIS EVALUATION. IT WAS THEREFORE IMPOSSIBLE TO CONSIDER SOLAR ELEVATIONS, AZIMUTHS, ALTITUDES, AND OTHER PARAMETRIC DATA IN THIS EVALUATION.

3. POSITIVES:

A. PRINTING AND PROCESSING APPEAR GOOD.

B. ATMOSPHERICS CAUSE LITTLE APPARENT IMAGE DEGRADATION.

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END OF MSG

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